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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/680,196		10/08/2003	Takashi Sasaki	3673-0158P	5408	
2292	7590	02/10/2005		EXAMINER		
		RT KOLASCH & B	GORDON, RAEANN			
PO BOX 74 FALLS CH		VA 22040-0747		ART UNIT PAPER NUMBER		
	,			3711		
				DATE MAILED: 02/10/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/680,196	SASAKI ET AL.					
Office Action Summary	Examiner	Art Unit					
•	Raeann Gorden	3711					
The MAILING DATE of this communication ap							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e. cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 08 C	October 2003						
, <u> </u>	s action is non-final.						
3) Since this application is in condition for allowa		esecution as to the merits is					
·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
·							
,,	Claim(s) <u>1-5</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
· _ · · · · · · · · · · · · · · · · · ·	Claim(s) is/are allowed.						
	Claim(s) <u>1-5</u> is/are rejected.						
· · · · · · · · · · · · · · · · · · ·	☐ Claim(s) is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement.						
•		•					
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
The path of declaration is objected to by the E.	xaminer, Note the attached Office	Action of form P10-132.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document * See the attached detailed Office action for a list 	ts have been received. ts have been received in Applicati prity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)		(070,440)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summary Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>10-8-03</u> .		atent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Umezawa et al (2003/0060307) in view of Kasashima et al (6,241,627). Regarding claim 1, Umewaza discloses a golf ball comprising a core and a cover made from a thermoplastic polyurethane elastomer [0052]. The cover has a Shore D hardness from 44-56 [0058]. The golf ball has a diameter of 42.67 mm and has from 360-460 dimples on the surface of the ball [0071]. Umewaza discloses no particular limits are Imposed on the total number of dimples, shape, size, and type. Kasashima teaches a dimple pattern comprising from 80 to 95%. The largest dimple has a maximum diameter of 5.0 mm (col. 4). R1 may therefore equal up to 11.7% or from 11-11.7% assuming a diameter range from 4.7 to 5.0 mm (col. 4, lines 35-40). Regarding claim 2, the total number of dimples with an R1 value from 11-11.7% is 240 (dimple 3 of figure 2) (col. 4). The total number of dimples is 420. R2 equals 57% (240/420). Regarding claim 3, the occupation ratio, y, from 0.19% to 0.226% with the surface area coverage from 80-95%. Regarding claim 4, Kasashima discloses three sets of dimples (fig 2) with different diameters. The total number of dimples is 420. Dimple 3, the largest, includes 240,

dimple 2 includes 120, and dimple 3 (smallest) includes 60. Dimple 1 has a diameter from 2.0 to 4.0 mm while dimples 2 and 3 have a diameter 3.0 to 5.0 mm. Implementing the smallest possible values for dimples 1 and 2 (2.0 and 3.0, respectively) and from 4.7 to 5.0 mm for the largest dimple, 3, as noted above renders the following X: 5049 to 5275. This range may be lower than 38.82 * Y + 1495 or implementing 80-95%, Y, equals 4600-5183. Regarding claim, Umewaza discloses an intermediate layer with a hardness value higher than the cover hardness by at least 7 [0059]. One of ordinary skill in the art would have modified Umewaza with the dimple pattern of Kasashima for enhanced flight performance.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raeann Gorden whose telephone number is 571-272-4409. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Vidovich can be reached on 571-272-4415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rg February 7, 2005

PAEANN GORDEN
PRIMARY EXAMINET